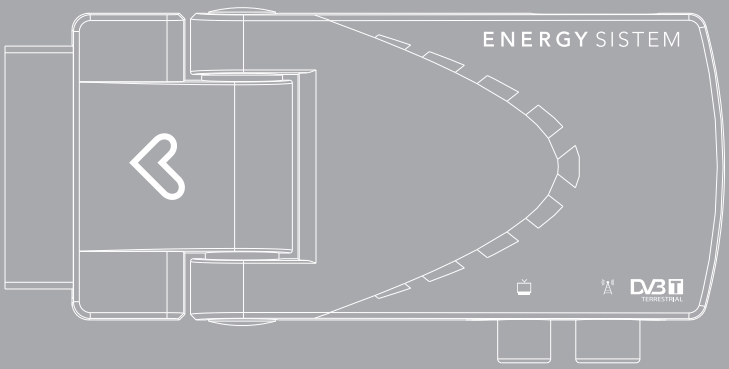

User Manual

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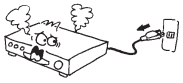
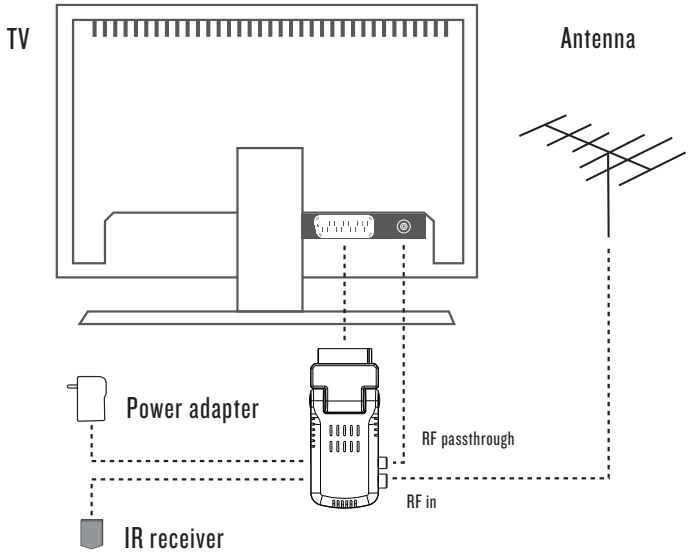
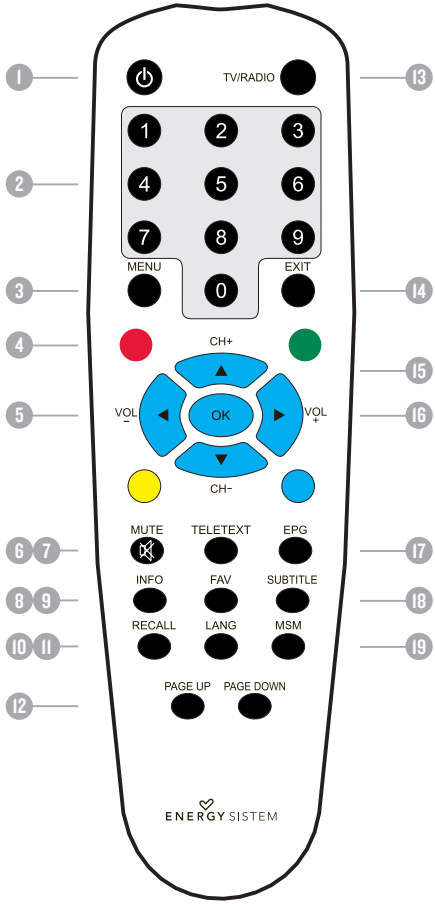
I. SAFETY INSTRUCTIONS

To avoid electric-shock hazards, do not open the cabinet, refer servicing to qualified personnel only.	Keep the receiver away from liquids and liquid containers such as vases in order to avoid damaging the equipment.
Do not expose the receiver to direct sunlight. Keep it away from heat sources.	Do not block ventilation holes of the receiver so air can circulate freely.
	
When an abnormal phenomenon occurs cut off the power immediately.	Do not touch the receiver during electrical storms to avoid electric-shock hazards.
Switch the receiver off whenever it remains out of service for an extended period.	Be sure to disconnect the AC power cord before cleaning. To clean the surface wipe clean with a cloth which has been dipped in a weak soap-and-water solution and wrung out thoroughly, and then wipe again with a dry cloth.

2. CONNECTIONS



3. REMOTE CONTROL

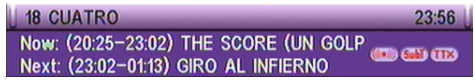


1. Standby on/off: Enters/exits standby mode.
2. 0-9: While in TV/radio standard mode use the numeric keys to input the number of the desired channel. If the number does not correspond to a valid channel a “No channel!” message will show.
3. MENU: Shows the main menu or steps back one menu if you are already browsing menus.
4. Red/Green/Yellow/Blue: Teletext browsing.
5. VOL-/VOL+: When in standard mode use it to increase/decrease volume.

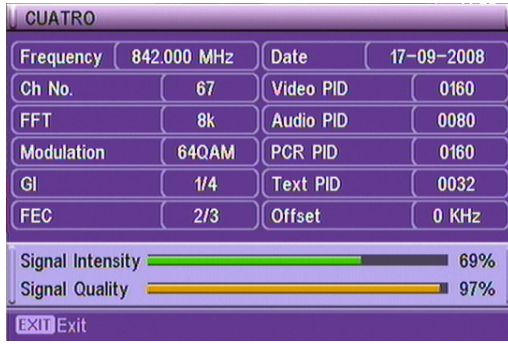
While using menus or lists use to select the left or right item.

6. Mute: Press to disable/enable audio output.
When the audio is disabled the following icon appears on screen:

7. TELETEXT: Show the teletext screen (if available).
8. INFO: Shows information about the current program. Press it once to see first information screen which includes channel, time, current and next program and audio, subtitle and teletext availability data.



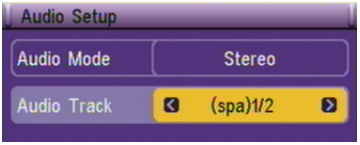
Press[INFO] again to display technical information and reception quality/intensity of the current channel.



9. FAV: Favourites. Shows the groups that contain your favourite channels. If you select one you will be limited to the channels contained in that group when pressing [CH+] or [CH-].

10. RECALL: Switch back and forth between the current and previous channels.

11. LANG: Choose audio mode and track (language).



12. PAGE UP/PAGE DOWN: Moves up/down one page while browsing a list.

13. TV/RADIO: In standard mode, press to switch between TV and radio.

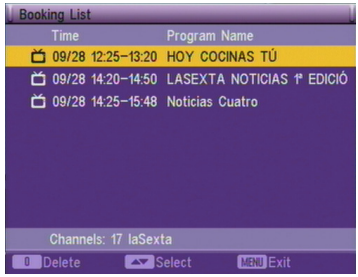
14. EXIT: Return to the previous menu.

15. CH+/CH-: When in standard mode use it to change to the previous or next channel. While using menus or lists use to select the next or previous item.

16. OK: When in standard mode press to show the TV or radio list (see section 'Main menu' for details). In other contexts it is used to confirm selections.

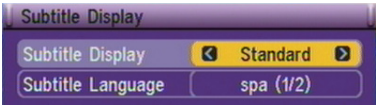
17. EPG: Electronic Program Guide
Press [2] to switch between the 3 panels.
- Up left: channel list.
- Up right: time, date, current and next programs.
- Down: scheduled programs of the channel selected at the up left panel.

Press [OK] to book a program (a heart icon notes booked programs).
Press [I] to show the booking list. At this list you can delete the programs you no longer want to book.



Press [3] to view program details and [I] to switch between short and extended descriptions.

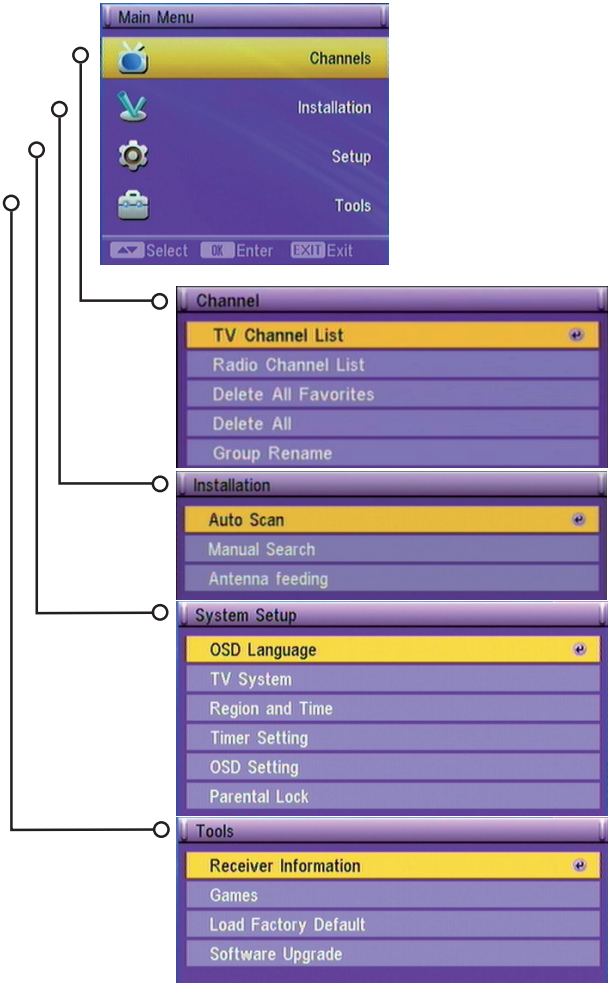
18. SUBTITLE: Choose subtitle display and language (if available). Also used as ‘yellow’ on Teletext.



19. MSM: Multi Screen Mosaic. Shows nine channels on screen and allows you to browse them.

4. MAIN MENU

Enter [Main Menu] by pressing 'MENU'. The contents of the [Main Menu] and the next level of menus are shown in the following diagram.



4.I. CHANNELS

4.I.I. TV Channel List

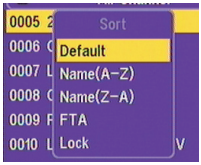
Switch between Favorite Groups. Note that only “Edit” and “Find” are available when a Favorite Channel group is selected.

The currently selected channel is shown in the preview frame.

The “Edit” function is explained in the next page

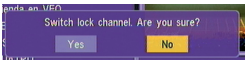
Find a channel by typing its name

You can sort the channels by: name / free to air / locked

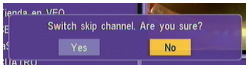


When you press ‘4’ to move a channel an icon appears next to the channel name

Use OK to select/deselect a channel
Use 0 to select all channels

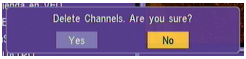


Locks the selected channels after confirmation



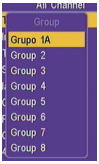
Skips the selected channels when using CH+/CH- after confirmation

Deletes the selected channels after confirmation



Include the selected channels in a favorite group

Type a new name for the selected channel

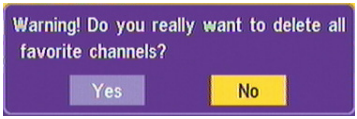


4.1.2. Radio channel list

The operation of this list is the same than [TV Channel List].

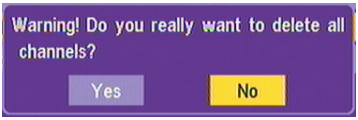
4.1.3. Delete all favorites

This erases the 'Favorite' attribute of the channels. Note that it will not erase the channel database or your customized Group names.



4.1.4. Delete all

After asking for password it erases the channel database so you will need to tune the TV/radio channels again.



4.1.5. Group rename

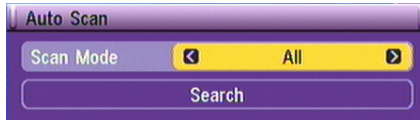
Change the name of any favorite group with this function.

Tip: You can use a favorite group for each family member (e.g. James' favorite channels, Sally's, Jude's, etc) or to sort them by content (e.g. News, Movies, Sports, ...)

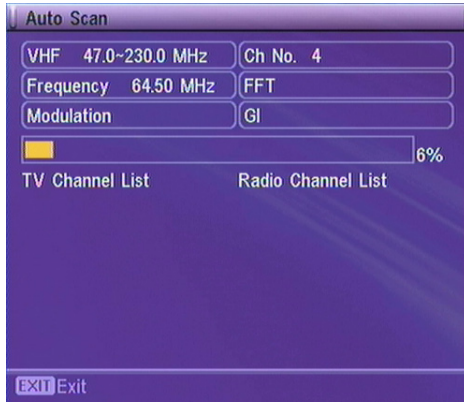
4.2. INSTALLATION

4.2.1. Auto Scan

Scan mode: All (any channel), Free (only free to air channels).



This screen will show while the channel scan is in progress:



4.2.2. Manual search

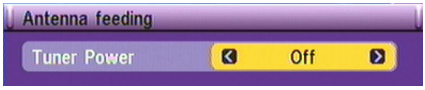
There are two scan modes with different parameters (gray means not applicable):

Scan Mode	by channel	by frequency
Scan band	UHF/VHF	
Channel number	<input>	
Frequency		<input>
Bandwidth		6/7/8 MHz

After you have selected the scan parameters press “Search”.

4.2.3. Antenna feeding

Turns on/off the power supply to the active antenna (note that your antenna may not need feeding)



4.3. SETUP

4.3.1. OSD language

Select your preferred language for the On Screen Display between: English, French, Portuguese, Italian, Spanish, German, etc

4.3.2. TV System

Display Mode:

PAL: television standard used in Europe and other countries.
NTSC: television standard used in America and other countries.
AUTO: automatically detects the television standard used.

Aspect Ratio:

4:3 LB (Letterbox): fits a widescreen video preserving the original aspect ratio.
4:3 PS (Pan and scan): crops a widescreen video to a 4:3 screen.
16:9: no transformation is needed to watch widescreen video.

Video Output:

RGB (Red Green Blue): The color signal is separated in three components to improve

quality.
CVBS (composite video): Basic video signal supported by all TVs with SCART connector.

LCN Mode:

Turns On / Off Logical Channel Number.

4.3.3. Region and Time

There are three main modes depending on GMT Usage (gray means not applicable).

Region	<input>	<input>	<input>
GMT Usage	off	user define	by region
GMT Offset		<input>	
Date	<input>		
Time	<input>		
Summer Time			<input>
Time Display	Yes/no	Yes/no	Yes/no

4.3.4. Timer settings

Program timer

There are four main modes depending on Timer Mode (gray means not applicable)

Timer Mode	Once	Daily	Weekly	Monthly
Timer Service	TV/radio	TV/radio	TV/radio	TV/radio
Wakeup channel	<input>	<input>	<input>	<input>
Date	<input>			<input>
Month	<input>			
Day			<input>	
Time	<input>	<input>	<input>	<input>

Sleep timer

Sets the countdown timer. When it expires the receiver will automatically shut down.

4.3.5. OSD Settings

4.3.6. Parental Lock

Fixed password: 3330
Default user password: 0000

Menu lock

Turns on/off password checking when accessing the Installation menu.

Channel lock

Turns on/off password checking when trying to watch a channel marked as 'Locked'.

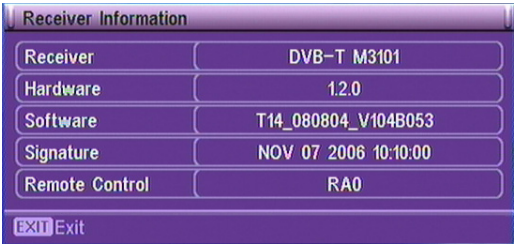
New password/Confirm password

Changes the user password and asks for confirmation to avoid mistakes.

4.4. TOOLS

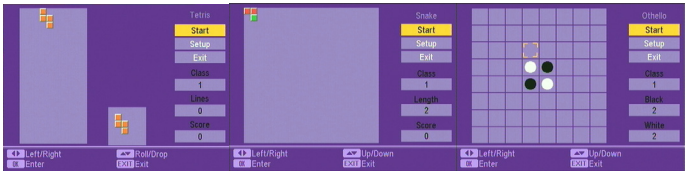
4.4.1. Receiver information

Shows technical data about the receiver firmware and hardware.



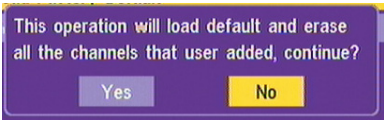
4.4.2. Game

There are three fun games: Tetris, Snake and Othello.



4.4.3. Load factory default

After asking for password all the parameters of the device will reset to its default value.



4.4.4. Software upgrade

Upgrades the firmware. You should be careful with this option and use it only by manufacturer's advice.

5. TROUBLESHOOTING

Problem	Possible causes	What to do
The LED on the remote control sensor does not light up	Main cable not connected	Check that the power adaptor is plugged into a power socket
The LED on the remote control sensor is on but no sound or picture	The receiver is in standby mode	Press the standby button on the remote control
No sound or picture	No signal or weak signal	Check the antenna and all connections and equipment between the antenna and the receiver
	Too strong signal	Connect a signal attenuator to the antenna input
Bad picture / blocking error	Antenna noise factor too high	Change to an antenna with lower noise factor
The remote control unit is not working	Battery exhausted	Change the batteries
	Remote control incorrectly aimed or obstacles in the signal path	Aim the remote control at the receiver and check that no obstacle blocks the path

6. TECHNICAL SPECIFICATIONS

Channel database	
Channels	1000
Favorite groups	8
Channel attributes	favorite, lock, skip
Picture in Graphics	
EPG	7 days
Connections	
Antenna	IEC 169-2 female
A/V	21 pin SCART male video (CVBS, RGB) and audio (L/R)
IR	3.5mm TRS minijack
AV output	
Video Bandwidth	5.5 MHz
Video Impedance	75 Ohms
Video voltage level	1.0 Vp-p
Teletext standards	DVB ETSI EN 300 472
Subtitle standards	DVB ETSI EN 300 743
Remote control unit	
Battery type	2x 1.5V AAA size
Input voltage	AC 100-250V 50/60Hz
Consumption	
In use	< 6 W
Stand-by	2.5 W
Temperature	0º-40º Celsius
Humidity	< 95%

WARRANTY

Energy Sistem Soyntec S.A. warrants its products to be free from defects in materials and workmanship at the time of purchase.
The warranty period is 36 months from the date of purchase.

WARRANTY PROCEDURE

1. Visit the Support section at http://support.energysistem.com and select your product to view the FAQ (Frequently Asked Questions). The solution to your problem is very likely to have been already published there. You will also be able to download user manuals, user guides, drivers and updates.
2. If you cannot find an appropriate solution in the Support section, you may send us your enquiry or warranty service request by email: support@energysistem.co.uk
3. Alternatively, you may prefer to contact the distributor from which you purchased the product, presenting the purchase receipt or invoice.

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CE

DECLARATION OF CONFORMITY

Supplier Name: Energy Sistem Soyntec S. A.

Address: Pol. Ind. Finestrat C/ Calpe, 1, 03509 Finestrat Alicante

Tel: 902 388 388

Fax: 902 119 034

NIF: A53107488

We declare under our own exclusive responsibility that the product:

Energy Sistem® DVB-T Receiver ENERGY T4450

Is in compliance with the essential directives, norms and standards of the European Union 89/336/EEC (EMC Directive).

Manufacturing country: China